

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/004044

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01J31/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 338 080 A (* IMCO ELECTRO-OPTICS LIMITED; * DRS HADLAND LIMITED) 8 December 1999 (1999-12-08) page 2, paragraph 3 page 2, paragraph 6 – page 3, paragraph 1 page 3, paragraph 6 – page 4, paragraph 2 page 7, paragraph 7 page 8, paragraph 4 – page 9, paragraph 3	1-4, 9, 12-17, 22, 25, 26
Y	----- -/-	5-8, 10, 11, 18-21, 23, 24

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

17 June 2005

Date of mailing of the International search report

28/06/2005

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PCT/GB2004/004044

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 2 349 534 A (JONATHAN DAVID * HARES) 1 November 2000 (2000-11-01)  abstract page 1, paragraph 2 page 2, paragraph 3 page 3, paragraph 9 page 4, paragraph 5 – page 5, paragraph 2 page 9, paragraph 2 – page 10, paragraph 1 ----- US 4 184 069 A (BOSSERMAN, DAVID A) 15 January 1980 (1980-01-15) column 1, line 56 – column 3, line 20 ----- EP 0 269 356 A (SPERRY MARINE INC) 1 June 1988 (1988-06-01) abstract column 1, line 48 – column 2, line 13 column 3, line 18 – column 4, line 58 column 5, line 17 – column 6, line 30 ----- US 3 885 180 A (CARTS, JR. ET AL) 20 May 1975 (1975-05-20) column 1, line 60 – column 3, line 14 ----- US 5 919 140 A (PERELMAN ET AL) 6 July 1999 (1999-07-06) abstract page 1, lines 16-23 column 1, line 58 – column 2, line 31 column 2, lines 53-59 column 6, lines 27-45 ----- US 5 220 164 A (LIEBER ET AL) 15 June 1993 (1993-06-15) column 8, line 21 – column 9, line 29 -----	6-8,10, 11, 19-21, 23,24  5,18  6,7  6,8,20, 21  5  1,6-9, 19-21  6-9,19, 20
A		

# INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/004044

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
GB 2338080	A 08-12-1999	AU 4157499 A		30-12-1999
		CN 1311872 A		05-09-2001
		EP 1519215 A2		30-03-2005
		EP 1084442 A1		21-03-2001
		GB 2382666 A, B		04-06-2003
		WO 9964911 A1		16-12-1999
		JP 2002517966 T		18-06-2002
GB 2349534	A 01-11-2000	NONE		
US 4184069	A 15-01-1980	NONE		
EP 0269356	A 01-06-1988	EP 0269356 A2		01-06-1988
		JP 63138887 A		10-06-1988
		US 4872057 A		03-10-1989
US 3885180	A 20-05-1975	NONE		
US 5919140	A 06-07-1999	US 6070583 A		06-06-2000
		WO 9626431 A1		29-08-1996
		US 6321111 B1		20-11-2001
US 5220164	A 15-06-1993	US 5198657 A		30-03-1993